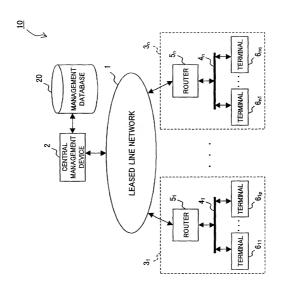
FIG.1



## FIG. 2

## SECRET CONCEALMENT TERMINAL TABLE

SECRET CONCERTENCY 12		
ROUTERS	SUBSCRIBER TERMINALS	PARTNER TERMINALS
	TERMINAL 6 <sub>11</sub>	TERMINAL 6 <sub>21</sub>
ROUTER 5 <sub>1</sub>	TERMINAL 6 <sub>11</sub>	TERMINAL 6 <sub>25</sub>
	:	:
	TERMINAL 6 <sub>12</sub>	TERMINAL 632
	TERMINAL 6 <sub>12</sub>	TERMINAL 644
	TERMINAL 6 <sub>1p</sub>	TERMINAL 622
	:	i i
ROUTER 5 2	:	:
	:	:
ROUTER 5,	:	:

## FIG. 3A

### PUBLIC KEY/SECRET KEY TABLE

ROUTERS	PUBLIC KEYS	SECRET KEYS
CENTRAL MANAGEMENT DEVICE	Kpc	Ksc
ROUTER 5 <sub>1</sub>	Kp1	Ks1
ROUTER 5 <sub>2</sub>	Kp2	Ks2
ROUTER 5 <sub>n</sub>	Kpn	Ksn

## FIG. 3B

### PUBLIC KEY/SECRET KEY TABLE

ROUTERS	PARTNER ROUTER	PUBLIC KEYS	SECRET KEYS
CENTRAL MANAGEMENT	ROUTER 5 <sub>1</sub>	Kpc1	Ksc1
	ROUTER 5 <sub>2</sub>	Kpc2	Ksc2
		•	
DEVICE			
DEVICE	•		
	ROUTER 5 <sub>n</sub>	Kpcn	Kscn
ROUTER 5 <sub>1</sub>	CENTRAL MANAGEMENT DEVICE	Кр1с	Ks1c
	ROUTER 5 <sub>2</sub>	Kp12	Ks12
	ROUTER 5 <sub>n</sub>	Kp1n	Ks1n
•	•		•

# FIG. 4A

### COMMON KEY TABLE

COMMON KEYS
Kc1
Kc2
-

## FIG. 4B

### COMMON KEY TABLE

COMMON KEYS	ENCRYPTION METHOD
Kc1	M1
Kc2	M2
	-

# FIG. 5A SECRET CONCEALMENT TERMINAL TABLE

SUBSCRIBER TERMINALS	PARTNER TERMINALS
TERMINAL 6 <sub>11</sub>	TERMINAL 6 <sub>21</sub>
TERMINAL 6 <sub>11</sub>	TERMINAL 6 <sub>25</sub>
	•
•	•
•	•
TERMINAL 6 <sub>12</sub>	TERMINAL 632
TERMINAL 6 <sub>12</sub>	TERMINAL 644
•	•
•	•
TERMINAL 61p	TERMINAL 622
•	•
	•
•	

## FIG. 5B

### PUBLIC KEY/SECRET KEY TABLE

ROUTERS	PUBLIC KEYS	SECRET KEYS
ROUTER 5 <sub>1</sub>	Kp1	Ks1
ROUTER 5 <sub>2</sub>	Kp2	
-	•	
ROUTER 5 <sub>n</sub>	Kpn	
CENTRAL		
MANAGEMENT	Kpc	
DEVICE		

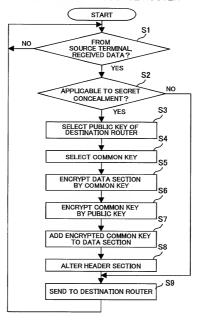
### FIG. 5C

### COMMON KEY TABLE

COMMON KEYS
Kc1
Kc2

FIG. 6

### PROCESSING OF SOURCE ROUTER



### FIG. 7

#### PROCESSING OF DESTINATION ROUTER

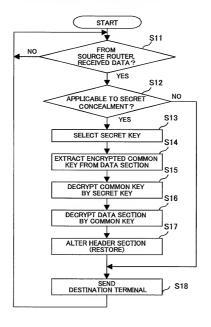


FIG. 8

# UPDATING PROCESSING OF TABLE (CENTRAL MANAGEMENT DEVICE)

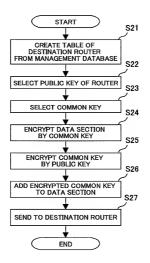


FIG. 9

# UPDATING PROCESSING OF TABLE (ROUTER SIDE)

